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(54) Title: GENETIC THERAPY AND GENETIC MODIFICATION USING NEOCENTROMERIC MINICHROMOSOMES

(57) Abstract: The present invention provides a target region within a mammalian, avian, plant or other eukaryotic chromosome or an artificial or engineered chromosomal construct which is capable of carrying and expressing a heterologous gene or other genetic molecule of interest. The gene or genetic molecule of interest is expressed in a region of the chromosome which corresponds to or which immediately adjoins or is proximal to a centromeric or neocentromeric region or a functional derivative thereof or a latent, synthetic or hybrid form thereof. A method for facilitating genetic therapy or genetic modification or other applications are also provided including protein production for proteomic therapy in a mammal, avian species or plant or other higher eukaryotes.



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